

Configuring SFP

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Configuring SFP+



Note

Several Cisco platforms, NIMs, and SM cards support configuring multiple-rate SFPs on same interface, e.g., 1G SFP or 10G SFP+ on a 10G port.

In a port-channel bundle, all member interfaces should be of same speed, and duplex. It is recommended to use duplex interfaces of the same speed as member interfaces for configuring a port-channel.

For more information about interfaces that support multiple-rate SFPs, see the corresponding datasheets.

SUMMARY STEPS

- **1. enable** *source-interface gigabitethernet slot/port*
- **2**. configure terminal
- **3.** interface tengigabitethernet *slot/port*

DETAILED STEPS

Procedure

	Command or Action	Purpose
Step 1	enable source-interface gigabitethernet slot/port	Enables the privileged EXEC mode. If prompted, enter your password.
	Example:	
	Router# enable	
Step 2	configure terminal	Enters the global configuration mode.
	Example:	

	Command or Action	Purpose
	Router# configure terminal	
Step 3	interface tengigabitethernet slot/port	Specifies the 10-Gigabit Ethernet interface to be configured.
	Example:	Here:
	Router(config)# interface tengigabitethernet 4/11	slot/port—Specifies the location of the interface.

Configuring FEC

Forward Error Correction (FEC) checks and recovers potential errors during long-range data transmission. The Cisco Catalyst 8500L Edge Platforms have long range SFP, therefore FEC must be configured.

SUMMARY STEPS

- **1.** enable source-interface gigabitethernet slot/port
- **2**. configure terminal
- **3.** interface twentyfivegigabitethernet *slot/port*
- 4. fec { auto | cl108 | cl74 | off}

DETAILED STEPS

Procedure

	Command or Action	Purpose
Step 1	enable source-interface gigabitethernet slot/port	Enables the privileged EXEC mode. If prompted, enter yo
	Example:	password.
	Router# enable	
Step 2	configure terminal	Enters the global configuration mode.
	Example:	
	Router# configure terminal	
Step 3	interface twentyfivegigabitethernet slot/port	Specifies the 10-Gigabit Ethernet interface to be configured.
	Example:	Here:
	Router(config)# interface twentyfivegigabitethernet 0/0/16 4/11	slot/port—Specifies the location of the interface.
Step 4	fec { auto cl108 cl74 off}	Configures FEC on the 25-Gigabit Ethernet interface.
	Example:	Following are the modes of the fec command:
	Router(config)# interface twentyfivegigabitethernet 0/0/16 4/11	• auto— Enables FEC based on SFP type
		• cl108— Enables clause108 <= RS-FEC(528,514)

Command or Action	Purpose
	 cl74— Enables clause74 <= FC-FEC disable— Disables FEC on interface
	 Note The fec command is only applicable to 25G links. For 10/25G dual-rate SFP, if the speed is changed from 25G to 10G, fec configuration should be removed first before speed change.

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